

We Claim:

1. Friction-lining segment (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2) for a segmented friction lining (3, 13, 23, 33) of a friction plate
5 (1) for a brake, clutch or the like
 - with a lock mechanism (4.1, 4.2, 4.3; 14.1; 24.1; 34.1) arranged on one end and/or
 - with a lock counter-mechanism (5.1, 5.2, 5.3; 15.2; 25.2; 35.2) arranged on the other end c h a r a c t e r i z e d i n
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at least one hole (8.1, 8.2, 8.3; 18.1; 28.1a, 28.1b; 38.1a, 38.1b, 38.1c, 38.2a) is provided
 - in a vicinity (7.1, 7.2, 7.3; 17.1; 27.1; 37.1) of said lock mechanism (4.1, 4.2, 4.3; 14.1; 24.1; 34.1) and/or
 - 15 ▪ in a vicinity (7.1, 7.2, 7.3; 17.1; 27.1; 37.1) of said lock counter-mechanism (5.1, 5.2, 5.3; 15.2; 25.2; 35.2).
2. Friction-lining segment according to Claim 1, characterized in that
20 said lock mechanism (34.1) and/or said lock counter-mechanism (35.2) demonstrates a clip (4.1, 4.2, 4.3; 14.1; 24.1; 34.1a, 34.1b, 35.2a, 35.2b) in which at least one hole (8.1, 8.2, 8.3; 18.1; 38.1a, 38.2a) is provided.
- 25 3. Friction-lining segment according to Claim 2, characterized in that said clip (4.1, 4.2, 4.3; 14.1; 24.1; 34.1a, 34.1b, 35.2a, 35.2b) demonstrates a neck (14.1b; 24.1b; 34.1b, 35.2b) and a head (14.1a, 24.1a; 34.1a, 35.2a) and that at least one hole (8.1, 8.2, 8.3; 18.1; 38.1a, 38.2a) is located in said head (14.1a, 24.1a;
30 34.1a, 35.2a).

4. Friction-lining segment according to Claim 3, characterized in that said at least one hole (8.1, 8.2, 8.3; 18.1; 38.1a, 38.2a) demonstrates an outside contour which essentially corresponds to the outside contour of said head (14.1a, 24.1a; 34.1a, 35.2a).
5. Friction-lining segment according to Claim 4, characterized in that said head (34.1a, 35.2a) is designed rhombic and demonstrates at least one hole (38.1a) with an ellipse-shaped outside contour.
6. Friction-lining segment according to one of the preceding claims, characterized in that said lock mechanism (34.1) and/or said lock counter-mechanism (35.2) demonstrates a groove (5.1, 5.2, 5.3; 15.2; 25.2; 34.1c, 35.2c) and that said at least one hole (28.1a, 28.1b; 38.1b, 38.1c) is provided in the vicinity (7.1, 7.2, 7.3; 17.1; 27.1; 37.1.) bordering said groove (5.1, 5.2, 5.3; 15.2; 25.2; 34.1c, 35.2c).
7. Friction-lining segment according to one of the preceding claims, characterized in that the depth of said at least one hole (8.1, 8.2, 8.3; 18.1; 28.1a, 28.1b; 38.1a, 38.1b, 38.1c, 38.2a) extends across the entire thickness of said friction lining (3, 13, 23, 33).
8. Friction lining (3, 13, 23, 33) of a friction plate for a brake, clutch, or the like,
- having at least two friction-lining segments (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2) adjoining each other on at least one end, wherein

- 5 ▪ on a end adjoining one end of said adjacent second friction-lining segment (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2), said first friction-lining segment (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2) demonstrates a lock mechanism (4.1, 4.2, 4.3; 14.1; 24.1; 34.1), which
- 10 ▪ connects to a lock counter-mechanism (5.1, 5.2, 5.3; 15.2; 25.2; 35.2) arranged on the adjoining end of said adjacent second friction-lining segment (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2), forming a lock (6.1, 6.2, 6.3; 16.1; 26.1; 36.1).
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- at least one hole (8.1, 8.2, 8.3; 18.1; 28.1a, 28.1b; 38.1a, 38.1b, 38.1c, 38.2a) is provided in a vicinity (7.1, 7.2, 7.3; 17.1; 27.1; 37.1) of said lock (6.1, 6.2, 6.3; 16.1; 26.1; 36.1).
- 15 9. Friction lining according to Claim 8, characterized in that
- said lock mechanism (34.1) demonstrates a clip (4.1, 4.2, 4.3; 14.1; 24.1; 34.1a, 34.1b...) having a neck (14.1b, 24.1b, 34.1b) and a head (14.1a, 24.1a, 34.1a), and that
- 20 ▪ said lock counter-mechanism (35.2) demonstrates a groove (5.1, 5.2, 5.3; 15.2; 25.2; 34.1c, 35.2c) which accommodates said clip (4.1, 4.2, 4.3; 14.1; 24.1; 34.1a, 34.1b) having said neck (14.1b, 24.1b, 34.1b) and said head (14.1a, 24.1a, 34.1a) essentially with positive fit, and that
- 25 ▪ said head (14.1a, 24.1a, 34.1a) demonstrates at least one hole (8.1, 8.2, 8.3; 18.1; 38.1a).

10. Friction lining according to Claim 9, characterized in that at least one other hole (28.1a, 28.1b; 38.1b, 38.1c) is provided in the vicinity of said lock counter-mechanism (35.2) adjoining said groove (5.1, 5.2, 5.3; 15.2; 25.2; 34.1c, 35.2c).
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11. Friction lining according to Claim 9 or 10, characterized in that
- said lock counter-mechanism (35.2) demonstrates a clip having a neck (35.2b) and a head (35.2a), and that
 - said lock mechanism (34.1) demonstrates a groove (34.1c), which accommodates said clip having said neck (35.2b) and said head (35.2a) essentially with positive fit, and that
 - said head (35.2a) demonstrates at least one other hole (38.2a).
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12. Process for manufacturing friction-lining segments (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2) which demonstrate
- at least one lock mechanism (4.1, 4.2, 4.3; 14.1; 24.1; 34.1) arranged on one end and/or
 - at least one lock counter-mechanism (5.1, 5.2, 5.3; 15.2; 25.2; 35.2) arranged on the other end, and
 - which are punched or cut out of a fibrous material, characterized in that at least one hole (8.1, 8.2, 8.3; 18.1; 28.1a, 28.1b; 38.1a, 38.1b, 38.1c, 38.2a) is milled, punched or cut
 - in a vicinity (7.1, 7.2, 7.3; 17.1; 27.1; 37.1) of said lock mechanism (4.1, 4.2, 4.3; 14.1; 24.1; 34.1) and/or
 - in a vicinity (7.1, 7.2, 7.3; 17.1; 27.1; 37.1) of said lock counter-mechanism (5.1, 5.2, 5.3; 15.2; 25.2; 35.2).
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13. Process according to Claim 12, characterized in that

said lock mechanism (4.1, 4.2, 4.3; 14.1; 24.1; 34.1) and/or said lock counter-mechanism (5.1, 5.2, 5.3; 15.2; 25.2; 35.2) on said friction-lining segments are punched or cut essentially perpendicular to a fiber direction.

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14. Friction plate (1)

- having a carrier (2, 32), and
- having at least one friction lining (3, 13, 23, 33) arranged on at least one end face of said carrier (2, 32) in accordance with one of the claims 8 through 11.

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15. Process for manufacturing a friction plate (1) according to Claim 14,

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in which said friction-lining segments (3.1, 3.2, 3.3; 13.1, 13.2; 23.1, 23.2; 33.1, 33.2) of said friction lining (3, 13, 23, 33) are glued to said carrier (2, 32)

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said friction plate (1) is impregnated with resin following said gluing.

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